

P.1 MATHEMATICAL LITERACY



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

MEMO-2024

G.12

NATIONAL
SENIOR CERTIFICATE

QUESTION 1

1.1

Each person who is entitled to R100 000. Your special award will be held at a special event, starting at 18:00.

TABLE 1: A table showing some of the budgeted expenses for the party.

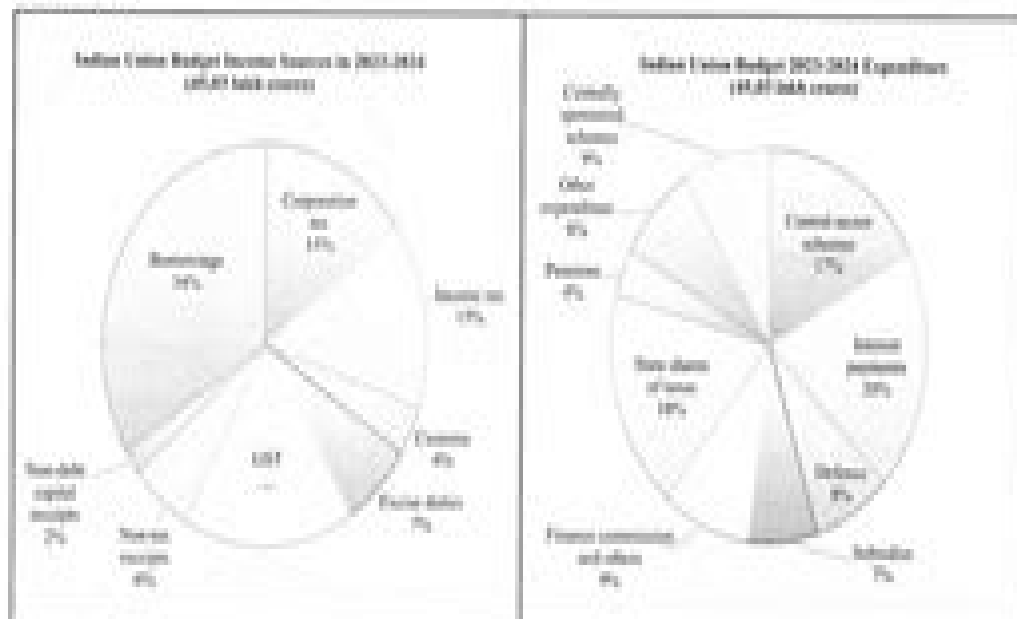
TABLE 1: BUDGETED EXPENSES FOR THE PARTY	
Cost of the venue	R150 000 (one-time fee for the day)
Food and drink	R120 000 (per person, one-time fee for the day)
Decorations	R50 000
Entertainment	R80 000
Transportation	R30 000
Other	R20 000
Total	R450 000

Use TABLE 1 and the information above to answer the questions that follow.

1.1.1 The table below represents the cost of food for the party.

TABLE 1.1: COST OF FOOD FOR THE PARTY										
Number of people	1	2	3	4	5	6	7	8	9	10
Cost (R)	4 000	6 000	8 000	10 000	12 000	14 000	16 000	18 000	20 000	22 000

QUESTION 2



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Mathematical Literacy Papertrial Exam 2014

**Edgar Galindo, Adelinda Araujo
Candeias, Małgorzata Lipowska, Óscar
Conceição De Sousa, Marcus Stueck**

Mathematical Literacy Papertrial Exam 2014:

PISA 2015 Assessment and Analytical Framework Science, Reading, Mathematic and Financial Literacy

OECD,2016-04-19 What is important for citizens to know and be able to do The OECD Programme for International Student Assessment PISA seeks to answer that question through the most comprehensive and rigorous international assessment of student knowledge and skills Assessing Mathematical Literacy Kaye Stacey,Ross Turner,2014-11-03 This book describes the design development delivery and impact of the mathematics assessment for the OECD Programme for International Student Assessment PISA First the origins of PISA s concept of mathematical literacy are discussed highlighting the underlying themes of mathematics as preparation for life after school and mathematical modelling of the real world and clarifying PISA s position within this part of the mathematics education territory The PISA mathematics framework is introduced as a significant milestone in the development and dissemination of these ideas The underlying mathematical competencies on which mathematical literacy so strongly depends are described along with a scheme to use them in item creation and analysis The development and implementation of the PISA survey and the consequences for the outcomes are thoroughly discussed Different kinds of items for both paper based and computer based PISA surveys are exemplified by many publicly released items along with details of scoring The novel survey of the opportunity students have had to learn the mathematics promoted through PISA is explained The book concludes by surveying international impact It presents viewpoints of mathematics educators on how PISA and its constituent ideas and methods have influenced teaching and learning practices curriculum arrangements assessment practices and the educational debate more generally in fourteen countries **PISA 2015 Assessment and Analytical Framework Science, Reading, Mathematic, Financial Literacy and Collaborative Problem Solving** OECD,2017-08-31 What is important for citizens to know and be able to do The OECD Programme for International Student Assessment PISA seeks to answer that question through the most comprehensive and rigorous international assessment of student knowledge and skills The Trials of Evidence-based Education Stephen

Gorard,Beng Huat See,Nadia Siddiqui,2017-06-26 The Trials of Evidence based Education explores the promise limitations and achievements of evidence based policy and practice as the attention of funders moves from a sole focus on attainment outcomes to political concern about character building and wider educational impacts Providing a detailed look at the pros cons and areas for improvement in evidence based policy and practice this book includes consideration of the following What is involved in a robust evaluation for education The issues in conducting trials and how to assess the trustworthiness of research findings New methods for the design conduct analysis and use of evidence from trials and examining their implications What policy makers head teachers and practitioners can learn from the evidence to inform practice In this well structured and thoughtful text the results and implications of over 20 studies conducted by the authors are combined with a much larger number of studies from their systematic reviews and the implications are spelled out for the research community

policy makers schools wanting to run their own evaluations and for practitioners using evidence *PISA 2018 Assessment and Analytical Framework* OECD,2019-04-26 This report presents the conceptual foundations of the OECD Programme for International Student Assessment PISA now in its seventh cycle of comprehensive and rigorous international surveys of student knowledge skills and well being Like previous cycles the 2018 assessment covered reading mathematics and science with the major focus this cycle on reading literacy plus an evaluation of students global competence their ability to understand and appreciate the perspectives and world views of others Financial literacy was also offered as an optional assessment Commonsense Methods for Children with Special Educational Needs Peter Westwood,2015-04-30 This fully revised and updated seventh edition of Commonsense Methods for Children with Special Educational Needs continues to offer practical advice on evidence based teaching methods and intervention strategies for helping children with a wide range of disabilities or difficulties The advice the author provides is embedded within a clear theoretical context and draws on the latest international research and literature from the field Coverage includes learning difficulties and disabilities students with autism spectrum disorders intellectual disability physical or health issues and sensory impairments gifted and talented students developing social skills and self management behaviour management teaching methods literacy and numeracy curriculum differentiation and adaptive teaching computer based instruction and e learning Peter Westwood also provides additional information and advice on transition from school to employment for students with disabilities lesson study e learning and computer aided instruction and reflects on the important changes made within the latest Diagnostic and Statistical Manual of Mental Disorders DSM 5

PISA for Development Assessment and Analytical Framework Reading, Mathematics and Science OECD,2018-09-25 What is important for citizens to know and be able to do The OECD Programme for International Student Assessment PISA seeks to answer that question through the most comprehensive and rigorous international assessment of student knowledge and skills As more countries join its ranks PISA The Game Believes in You Greg Toppo,2025-06-25 What if schools from the wealthiest suburban nursery school to the grittiest urban high school thrummed with the sounds of deep immersion More and more people believe that can happen with the aid of video games Greg Toppo s *The Game Believes in You* presents the story of a small group of visionaries who for the past 40 years have been pushing to get game controllers into the hands of learners Among the game revolutionaries you ll meet in this book A game designer at the University of Southern California leading a team to design a video game version of Thoreau s *Walden Pond* A young neuroscientist and game designer whose research on *Math Without Words* is revolutionizing how the subject is taught especially to students with limited English abilities A Virginia Tech music instructor who is leading a group of high school aged boys through the creation of an original opera staged totally in the online game *Minecraft* Experts argue that games do truly believe in you They focus inspire and reassure people in ways that many teachers can t Games give people a chance to learn at their own pace take risks cultivate deeper understanding fail and want to try again right away

and ultimately succeed in ways that too often elude them in school This book is sure to excite and inspire educators and parents as well as provoke some passionate debate **Learning Intervention** Jeanette Berman,Lorraine Graham,2018-05-08 This book explores what learning intervention means in inclusive classroom settings It provides educational professionals with the knowledge and skills they require to reflect on and respond to students individual learning needs and enables them to choose implement and evaluate evidence based strategies for learning intervention Taking an ecological perspective and placing a capability framework at its core the book considers how responsive teaching and educational casework combine to create intricate layers of learning intervention and recommends tailored teaching and support strategies that can be used to address a wide variety of student learning needs Learning intervention is thus understood in its broadest sense and educational professionals are equipped with a range of interactive and adaptive strategies to support student learning Chapters introduce and unpack numerous frameworks for practice provide an extension to Response to Intervention models and bring together key evidence based ideas in an accessible format Effective teaching in response to clearly defined learning needs is central to the achievement of all students Learning Intervention will provide future and current educational professionals with the structures knowledge insight and skills they need to respond effectively to each and every student *Judgment and Decision Making Under Uncertainty: Descriptive, Normative, and Prescriptive Perspectives* David R. Mandel,Gorka Navarrete,Nathan Dieckmann,Jonathan D. Nelson,2019-09-26

Executive Function and Education Mariëtte Huizinga,Dieter Baeyens,Jacob A. Burack,2018-09-21 Executive function is an umbrella term for various cognitive processes that are central to goal directed behavior thoughts and emotions These processes are especially important in novel or demanding situations which require a rapid and flexible adjustment of behavior to the changing demands of the environment The development of executive function relies on the maturation of associated brain regions as well as on stimulation in the child s social contexts especially the home and school Over the past decade the term executive function has become a buzzword in the field of education as both researchers and educators underscore the importance of skills like goal setting planning and organizing in academic success Accordingly in initiating this Research Topic and eBook our goal was to provide a forum for state of the art theoretical and empirical work on this that both facilitates communication among researchers from diverse fields and provides a theoretically sound source of information for educators The contributors to this volume who hail from several different countries in Europe and North America have certainly accomplished this goal in their nuanced and cutting edge depictions of the complex links among various executive function components and educational success *Research Anthology on Business Strategies, Health Factors, and Ethical Implications in Sports and eSports* Management Association, Information Resources,2020-11-27 From issues of racism to the severity of concussions to celebrity endorsements the sports industry continues to significantly impact society With the rise of eSports and its projection as the next billion dollar industry it is vital that a multifaceted approach to

sports research be undertaken On one side businesses are continually offering new methods for marketing and branding and finding the best ways to enhance consumer engagement and the consumer experience On the other side there has been progress and new findings in the physical fitness and training of the athletes themselves along with discussions on their psychology and wellbeing This two tiered approach to analyzing sports and eSports from a practical business perspective along with a lens placed on the athletes themselves provides a comprehensive view of the current advancements technologies and strategies within various aspects of the sports and esports industry Research Anthology on Business Strategies Health Factors and Ethical Implications in Sports and eSports covers the latest findings on all factors of sports the branding and marketing of sports and eSports studies on athletes and consumers a dive into the ethics of sports and the introduction of eSports to the industry This wide coverage of all fields of research recently conducted leads this book to be a well rounded view of how sports are functioning in modern times Highlighted topics include branding tactics consumer engagement eSports history and technologies ethics and law and psychological studies of athlete wellness This book is ideal for sports managers athletes trainers marketers brand managers advertisers practitioners stakeholders researchers academicians and students interested working in the fields of sports medicine law physical education assistive technologies marketing consumer behavior and psychology

Assessing Contexts of Learning Susanne Kuger, Eckhard Klieme, Nina Jude, David Kaplan, 2016-12-05 This volume brings together educational effectiveness research and international large scale assessments demonstrating how the two fields can be applied to inspire and improve each other and providing readers direct links to instruments that cover a broad range of topics and have been shown to work in more than 70 countries The book's initial chapters introduce and summarize recent discussions and developments in the conceptualization implementation and evaluation of international large scale context assessments and provide an outlook on possible future developments Subsequently three thematic sections Student Background Outcomes of Education Beyond Achievement and Learning in Schools each present a series of chapters that provide the conceptual background for a wide range of important topics in education research policy and practice Each chapter defines a conceptual framework that relates recent findings in the educational effectiveness research literature to current issues in education policy and practice These frameworks were used to develop interesting and relevant indicators that may be used for meaningful reporting from international assessments other cross cultural research or national studies Using the example of one particular survey the Programme for International Student Assessment PISA 2015 this volume links all theoretical considerations to fully developed questionnaire material that was field tested and evaluated in questionnaires for students and their parents as well as teachers and principals in their schools The primary purposes of this book are to inform readers about how education effectiveness research and international large scale assessments are already interacting to inform research and policymaking to identify areas where a closer collaboration of both fields or input from other areas could further improve this work to provide sound theoretical

frameworks for future work in both fields and finally to relate these theoretical debates to currently available and evaluated material for future context assessments

Early mathematics counts Yasmin A Sitabkhan, Linda Platas, 2018-07-23 This occasional paper examines common instructional strategies in early grade mathematics interventions through a review of studies in classrooms in low and middle income countries Twenty four studies met the criteria for inclusion and analyses reveal four sets of instructional strategies for which there is evidence from multiple contexts Of the 24 studies 16 involved the use of multiple representations 10 involved the use of developmental progressions 6 included supporting student use of explanation and justification and 5 included integration of informal mathematics Based on the review we provide conclusions and recommendations for future research and policy

School Achievement and Failure: Prevention and Intervention Strategies Edgar Galindo, Adelinda Araujo Candeias, Małgorzata Lipowska, Óscar Conceição De Sousa, Marcus Stueck, 2022-11-25

State Assessment Policy and Practice for English Language Learners Charlene Rivera, Eric Collum, 2014-05-12 State Assessment Policy and Practice for English Language Learners presents three significant studies each examining a different aspect of states strategies for including English language learners in state assessments an Analysis of State Assessment Policies Regarding Accommodations for English Language Learners a Survey and Description of Test Translation Practices and an Examination of State Practices for Reporting Participation and Performance of English Language Learners in State Assessments With the rise in population of English language learners and the subsequent stepped up legislative focus on this student population over the past decade states have been challenged to include English language learners in state assessment programs Until now the little data available on states policies and practices for meeting this challenge has been embedded in various reports and professional journals and scattered across the Internet This volume offers for the first time a focused examination of states assessment policies and practices regarding English language learners The three studies were supported by OELA the U S Department of Education s Office of English Language Acquisition Language Enhancement and Academic Achievement for Limited English Proficient Students State Assessment Policy and Practice for English Language Learners is of interest to researchers and professionals involved with the assessment of English language learners state and district level policy makers and academics teacher educators and graduate students in a number of fields including educational and psychological assessment testing and measurement bilingual education English as a second language and second language acquisition

Integrating the Biopsychosocial Model in Education Taukeni, Simon George, Mollaoğlu, Mukadder, 2024-12-13 Amidst the evolving landscape of education a persistent challenge arises the need to foster inclusive learning environments that cater to the diverse needs of every student Despite strides towards educational equity barriers such as gender disparities inequality and inadequate support for students with varying abilities continue to impede progress Recognizing this pressing issue this book emerges as a timely solution poised to transform educational practices By reframing education through the lens of the biopsychosocial model Integrating

the Biopsychosocial Model in Education offers a holistic approach that transcends traditional pedagogical boundaries Through an exploration of biological psychological and social factors educators are equipped with the tools to understand and address the complex needs of their students From promoting good health and well being to fostering inclusive classrooms the biopsychosocial model serves as a guiding framework for achieving the Sustainable Development Goals SDGs and cultivating a more equitable educational landscape

The Connection Between Mathematical and Reading Abilities and Disabilities Shelley Shaul,Joanna Christodoulou,Maria T. Sikkema-de Jong,2022-05-03

How to Make Sense of Statistics Stephen Gorard,2021-02-10 In a new textbook designed for students new to statistics and social data Stephen Gorard focuses on non inferential statistics as a basis to ensure students have basic statistical literacy Understanding why we have to learn statistics and seeing the links between the numbers and real life is a crucial starting point Using engaging friendly approachable language this book will demystify numbers from the outset explaining exactly how they can be used as tools to understand the relationships between variables This text assumes no previous mathematical or statistical knowledge taking the reader through each basic technique with step by step advice worked examples and exercises Using non inferential techniques students learn the foundations that underpin all statistical analysis and will learn from the ground up how to produce theoretically and empirically informed statistical results

Validity of Educational Assessments in Chile and Latin America Jorge Manzi,María Rosa García,Sandy Taut,2021-09-11 This edited volume presents a systematic analysis of conceptual methodological and applied aspects related to the validation of educational tests used in Latin American countries Inspired by international standards on educational measurement and evaluation this book illustrates efforts that have been made in several countries to validate different types of educational assessments including student learning assessments measurements of non cognitive aspects in students teacher evaluations and tests for certification and selection It gathers the experience of validity studies from the main international assessments in Latin America PISA TIMSS ERCE and ICCS Additionally it shows the challenges that must be taken into account when evaluations are used to compare countries groups or trends of achievement over time The book builds on the premise that measurements in the educational field should not be used if there are no studies that support the validity of the interpretation of their scores or the use made of such tests It shows that despite the recognition given to validity relatively few educational measurement assessments have accumulated enough evidence to support their interpretation and use In doing so this volume increases awareness about the relevance of validity especially when assessments are key component of educational policies

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